Performance Data Sheet

VSC5538BNA

General Information

Model	VSC5538BNA	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12000	10300					
	Watts	2060	2250					
	Amps	9.87	11.2					
	Lb/h	146	131					
-10	Btu/h	14600	12900	11300				
	Watts	2080	2280	2570				
	Amps	9.87	11.2	12.7				
	Lb/h	175	162	150				
-5	Btu/h	17200	15500	13900	12200			
	Watts	2090	2310	2590	2950			
	Amps	9.85	11.2	12.7	14.4			
	Lb/h	205	193	183	171			
0	Btu/h	19800	18100	16500	14800	13000		
	Watts	2100	2320	2600	2970	3420		
	Amps	9.83	11.1	12.6	14.3	16.3		
	Lb/h	235	225	215	204	190		
5	Btu/h	22600	20800	19100	17400	15600		
	Watts	2090	2320	2610	2980	3420		
	Amps	9.79	11.1	12.5	14.2	16.2		
	Lb/h	266	256	248	238	226		
10	Btu/h	25500	23700	21900	20100	18200	16000	13400
	Watts	2080	2320	2610	2980	3420	3950	4580
	Amps	9.74	11.0	12.5	14.1	16.1	18.4	21.2
	Lb/h	298	289	282	273	262	245	221
15	Btu/h	28500	26600	24800	22900	20900	18600	15900
	Watts	2060	2310	2610	2970	3420	3940	4560
	Amps	9.68	11.0	12.4	14.0	16.0	18.3	21.0
	Lb/h	331	324	317	309	299	283	260
20	Btu/h	31800	29800	27900	25900	23700	21300	18500
	Watts	2030	2290	2600	2960	3400	3920	4530
	Amps	9.60	10.9	12.3	13.9	15.9	18.1	20.8
	Lb/h	367	360	354	347	337	322	301

25	Btu/h	35300	33200	31200	29000	26800	24200	21200
	Watts	2000	2260	2580	2950	3390	3900	4500
	Amps	9.51	10.8	12.2	13.9	15.8	18.0	20.7
	Lb/h	405	398	393	387	378	364	343
30	Btu/h	39100	36800	34700	32400	30000	27300	24200
	Watts	1960	2240	2560	2930	3370	3880	4470
	Amps	9.40	10.7	12.1	13.8	15.6	17.9	20.5
	Lb/h	445	439	435	429	420	407	387
35	Btu/h	43100	40800	38400	36000	33400	30600	27300
	Watts	1910	2200	2530	2910	3350	3850	4430
	Amps	9.27	10.6	12.0	13.7	15.5	17.8	20.4
	Lb/h	489	483	479	474	466	453	433
40	Btu/h	47500	45000	42500	39900	37200	34100	30600
	Watts	1870	2170	2500	2880	3320	3820	4400
	Amps	9.13	10.5	11.9	13.6	15.4	17.6	20.2
	Lb/h	536	531	527	522	514	502	482
45	Btu/h	52200	49600	46900	44100	41200	37900	34200
	Watts	1810	2120	2470	2860	3290	3790	4360
	Amps	8.96	10.3	11.8	13.4	15.3	17.5	20.1
	Lb/h	587	582	578	574	566	554	535
50	Btu/h	57400	54500	51700	48700	45500	42000	38100
	Watts	1760	2080	2430	2830	3260	3760	4320
	Amps	8.77	10.2	11.7	13.3	15.2	17.4	20.0
	Lb/h	643	638	634	629	622	610	591
55	Btu/h	63000	59900	56800	53600	50200	46500	42300
	Watts	1700	2030	2400	2800	3240	3730	4280
	Amps	8.55	9.99	11.5	13.2	15.1	17.3	19.9
	Lb/h	703	698	694	689	682	670	651

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.984119E+04	1.679556E+03	-2.521282E+00	5.946745E+02
C2	5.398521E+02	-4.050877E+01	-3.934748E-02	4.663853E+00
C3	-6.875614E+02	1.293501E+00	2.588036E-01	-1.000076E+01
C4	4.608246E+00	-2.628206E-01	-9.855402E-04	3.425420E-02
C5	6.435010E-01	8.167320E-01	1.027478E-03	1.375831E-02
C6	5.366177E+00	-7.265583E-02	-2.221571E-03	9.591966E-02
C7	4.324139E-02	8.063745E-04	-1.623541E-06	5.228119E-04
C8	-3.208717E-02	1.076189E-03	9.542472E-06	-2.345551E-04
C9	-7.834952E-03	-3.883214E-03	-7.635976E-06	4.867794E-05
C10	-1.828400E-02	1.522422E-03	1.144951E-05	-3.387948E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature